

20000614.qrp v01_n852.qrl.20000614

Date: Wed, 14 Jun 2000 19:03:10 EDT

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 1852

QRP-L Digest 1852

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- 1) [72637] AE9K's LCD's
by "Steven Weber" <kd1jv@moose.ncia.net>
- 2) [72638] OT: Cal procedure for Tek FG 503 and DC 504 needed
by Michael Melland <badger@vbe.com>
- 3) [72639] audio chips
by Bruce Rattray <rattray@gpfn.sk.ca>
- 4) [72640] Re: audio chips
by "w8diz" <w8diz@cinci.rr.com>
- 5) [72641] I'm an Extra too, no worries
by AdamN7YA@aol.com
- 6) [72642] Re: Tonna (F9FT) antennas
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- 7) [72643] W5JH Mic Pre-Amp Kit
by Bob Hightower <nk7m@extremezone.com>
- 8) [72644] battery clip leads
by paul taylor <ptay1@miro.bestweb.net>
- 9) [72645] Re: battery clip leads
by Pete Burbank <plburbank@kih.net>
- 10) [72646] Re: Power FET PA ?
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- 11) [72647] RE: battery clip leads
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- 13) [72649] Re: Power FET PA ?
by "Mike Yetsko" <myetsko@insydesw.com>
- 14) [72650] Re: Re QRP VHF/UHF how to
by "Lau, Zack, W1VT" <zlau@arrl.org>
- 15) [72651] Re: Ten meters
by Curt Milton <wb8yyy@yahoo.com>
- 16) [72652] Re: Power FET PA ?
by Bruce Muscolino <w6toy@erols.com>
- 17) [72653] Blt tuner question
by tailfeathers@juno.com
- 18) [72654] Re: Blt tuner question
by John Wagner <john@neknetwork.com>
- 19) [72655] FS: Elecraft K2 blank cases (EC2)

- by Mark Sailer <msailer@buoy.com>
- 20) [72656] Noise Generator
by "Victor Blackwell" <victor@brecnet.com>
- 21) [72657] BLT manual
by zmola@campbellsci.com
- 22) [72658] Re: audio chips
by "Leon Heller" <leon_heller@hotmail.com>
- 23) [72659] Re: Noise Generator
by "Leon Heller" <leon_heller@hotmail.com>
- 24) [72660] FS: Elecraft K2 blank cases (EC2) - clarification
by Mark Sailer <msailer@buoy.com>
- 25) [72661] RE: Noise Generator
by Karl Kanalz <KKanalz@excel.com>
- 26) [72662] Re: Noise Generator
by Chris Trask <ctrask@primenet.com>
- 27) [72663] RE: Noise Generator
by "Kevin Muenzler, WB5RUE" <wb5rue@stic.net>
- 28) [72664] Re: battery clip leads
by Charlie Panek <charlie_panek@agilent.com>
- 29) [72665] Tech On Line
by "Ian C. Purdie VK2TIP" <ianpurdie@integritynet.com.au>
- 30) [72666] RE: Tech On Line
by "AI2Q Alex" <ai2q@ispchannel.com>
- 31) [72667] Re: Noise Generator
by Glen Leinweber <leinwebe@mcmail.cis.McMaster.CA>
- 32) [72668] A source for crystals
by Andrew Madsen <MADSENANDREW@netscape.net>
- 33) [72669] RE: Touch-Controlled Lamps RFI
by "Hare, Ed, W1RFI" <w1rfi@arrl.org>
- 34) [72670] RE: QST QRP Issue
by "Hare, Ed, W1RFI" <w1rfi@arrl.org>
- 35) [72671] Geeky Snake Oil
by "Richard E. Robinson" <rerobins@email.uncc.edu>
- 36) [72672] RE: I'm an Extra and proud of it.
by "Hare, Ed, W1RFI" <w1rfi@arrl.org>
- 37) [72673] RE: DSL?
by "Hare, Ed, W1RFI" <w1rfi@arrl.org>
- 38) [72674] Re: Geeky Snake Oil
by "Mike Yetsko" <myetsko@insydesw.com>
- 39) [72675] Re: Geeky Snake Oil
by "Doug Person" <w4dxv@attglobal.net>
- 40) [72676] Handy Guide for Solar Conditions
by "Paul Harden, NA5N" <na5n@rt66.com>
- 41) [72677] RE: DSL?
by Gary Lee Phillips KA9NZI <ka9nzi@arrl.net>
- 42) [72678] RE: I'm an Extra and proud of it.
by "Kevin Muenzler, WB5RUE" <wb5rue@stic.net>
- 43) [72679] Re: Noise Generator

by "Victor Blackwell" <victor@brecnet.com>
44) [72680] Re: DSL?
by "Mike Yetsko" <myetsko@insydesw.com>
45) [72681] Computer RFI [was: Re: DSL?]
by "Gary Lee Phillips" <ka9nzi@arrl.net>
46) [72682] Re: Computer RFI [was: Re: DSL?]
by "Larry Acklin" <larrya@compu-fixinc.com>
47) [72683] Re: Geeky Snake Oil
by "baltimoremd@baltimoremd.com" <baltimoremd@baltimoremd.com>
48) [72684] Re: Geeky Snake Oil
by "Brian" <brian@iquest.net>
49) [72685] Fw: Noise Generator
by "Victor Blackwell" <victor@brecnet.com>
50) [72686] Re: DSL?
by "Dan W. Dooley" <dandooley@pipeline.com>
51) [72687] Re: Geeky Snake Oil
by semann@tcia.net (Steven Mann)
52) [72688] Re: DSL?
by David Hinerman <dlh1009@ritvax.isc.rit.edu>
53) [72689] Re: A source for crystals
by Ray Colbert <af852@rgfn.epcc.edu>
54) [72690] Re: Geeky Snake Oil
by "Chuck Carpenter" <w5usj@globeco.net>
55) [72691] Noise Generator schematic-simple projects
by Charles K Brown <n4so@juno.com>
56) [72692] Re: Geeky Snake Oil
by Gary Lee Phillips KA9NZI <ka9nzi@arrl.net>
57) [72693] Re: Geeky Snake Oil
by "Victor Blackwell" <victor@brecnet.com>
58) [72694] Fw: Noise Generator
by "Victor Blackwell" <victor@brecnet.com>
59) [72695] Re: solar storm question
by "David P. Drake" <dpg@dtg2.ncifcrf.gov>
60) [72696] Surface Mounted Parts Shortage
by Tayloe Dan-P26412 <Dan.Tayloe@motorola.com>
61) [72697] RE: Geeky Snake Oil
by carlos.caro@lmco.com
62) [72698] Re: Geeky Snake Oil
by "baltimoremd@baltimoremd.com" <baltimoremd@baltimoremd.com>
63) [72699] Re: battery clip leads
by Rick McKee <kc8aon@juno.com>

Date: Tue, 13 Jun 2000 18:51:20 +0000
From: "Steven Weber" <kd1jv@moose.ncia.net>
To: qrp-l@lehigh.edu
Subject: [72637] AE9K's LCD's

Message-ID: <200006132329.TAA17834@wolf.ncia.net>

MIME-Version: 1.0

Content-type: text/plain; charset=US-ASCII

Content-transfer-encoding: 7BIT

Just to clear things up a bit, the Epson LCD's Brian has confrom to the industry standard for this type of module in both function and pin out and are +5 only type. All Electronics has a "generic" LCD module data sheet on thier web site, should anyone be interested in the specific details of how they work. (www.allelectronics.com)

Some modules in the surplus catalogs are odd balls, but they tell you that. ie, "drivers only, no controler" or some such thing. These are sold very cheaply, as they are next to useless.

72,

Steve, KD1JV in the white Mountains of New Hampshire
"melt solder"

Date: Tue, 13 Jun 2000 19:06:41 -0500

From: Michael Melland <badger@vbe.com>

To: qrp-l@lehigh.edu

Subject: [72638] OT: Cal procedure for Tek FG 503 and DC 504 needed

Message-ID: <3946CC91.8D193872@vbe.com>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

I want to have my Tek DC 504 counter and FG 503 function generator calibrated. The metrology lab I use doesn't have the cal procedure for either of these. They said they could ask around and locate it, but they treat me right and I thought I'd try to locate the procedure myself and save them the trouble.

Does anyone have an instruction manual for either of these that could copy the cal procedure and mail it to me..... I'll pay the costs.

Thanks,

Mike, W9WIS

--

Michael Melland, W9WIS

Winneconne, Wisconsin, USA

FISTS #4387, 10-10 #69281, QRP-L #1656,

QRP-ARCI #9875, AK/QRP #478, NorCal, RC #252

NJ-QRP #214, SOC #142, Cheeseheads QRP Club
List Administrator: grundig@qth.net
<http://www.vbe.com/~badger>

Date: Tue, 13 Jun 2000 19:13:00 -0600 (CST)
From: Bruce Rattray <rattray@gpfn.sk.ca>
To: QRP-Canada <qrp-canada@lists.gpfn.sk.ca>, Low Power Group <qrp-l@LeHigh.EDU>
Subject: [72639] audio chips
Message-ID: <Pine.LNX.3.95.1000613190207.20840A-1000000@neale.gpfn.sk.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I'm having a ball learning about the "LM" audio chips....with everyone's help I'm starting to learn a bit about these critters...as a note of interest regarding the LM380 and its "screaming banshees" mode, just for starters, I moved the speaker to the left of the breadboard, separated the other wires such as the power wires from the audio input wires and it's working "more better"....prior to this, it was a breadboard with wires going everywhere over and under....I was now able to copy a CW qso which is a first....I still have the "banshees" effect with it but definitely less now...so I'm going to use an LM386 in the SW-30 rig.....the only question have is will it work with 12 volts?....it says it should work in the spec sheet so I'll try it....maybe 12 volts is an absolute limit?....after that is done I will be doing further work on the LM380 and try my best to "tame" it.....

..72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272
A-1 Operator Club - 10/10# 944 - SOC #11 & #12 - Whiner#10 -
"QRP! How sweet it is!" "I am da man wit "DAH" paddle!"

Date: Tue, 13 Jun 2000 21:27:07 -0400
From: "w8diz" <w8diz@cinci.rr.com>
To: "QRP-L" <qrp-l@lehigh.edu>
Subject: [72640] Re: audio chips
Message-ID: <001001bfd59f\$a77d3420\$1461a518@cinci.rr.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Bruce,

Anytime you use an IC audio amp like the LM380 or the LM386, be sure to have a high value decoupling capacitor from the supply pin to ground. The value should be at least 220 uF. Take a look at a typical use of the LM380 on this schematic...

<http://www.mpna.com/fpqrp/mp10.gif>

You'll notice there is a 47 nF capacitor at the input of the AF amp. This shunts some of the very high freq audio to ground and also adds some stability to the amp by helping prevent high freq audio feedback oscillations.

Also VERY IMPORTANT is to have a good ground plane. All grounds should be tied to a common point to prevent GROUND LOOPS.

BTW, 12 VDC works fine with the LM380.

This link will give lots of detail...

<http://www.national.com/pf/LM/LM380.html>

good luck!

73 & "oo's" - Dieter (DIZ) Gentzow - W8DIZ - Loveland, Ohio

Clermont County - EM79uf - near Cincinnati; 39.218N - 84.305W

FPqrp-1 SOC-8 DLQRPAG-1454 ARCI-10226 QRPL-1998 10X-9389 CATT-26 K2-493

<http://home.cinci.rr.com/w8diz> [AOL-IM "w8diz"]

----- Original Message -----

From: "Bruce Rattray" <rattray@gpfn.sk.ca>

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Sent: Tuesday, June 13, 2000 9:13 PM

Subject: audio chips

> I'm having a ball learning about the "LM" audio chips....with everyone's
> help I'm starting to learn a bit about these critters...as a note of
> interest regarding the LM380 and its "screaming banshees" mode, just for
> starters, I moved the speaker to the left of the breadboard, separated the
> other wires such as the power wires from the audio input wires and it's
> working "more better"....prior to this, it was a breadboard with wires
> going everywhere over and under....I was now able to copy a CW qso which
> is a first....I still have the "banshees" effect with it but definitely
> less now...so I'm going to use an LM386 in the SW-30 rig....the only
> question have is will it work with 12 volts?....it says it should work in
> the spec sheet so I'll try it....maybe 12 volts is an absolute limit?....
> after that is done I will be doing further work on the LM380 and try my
> best to "tame" it.....

>

> ..72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272

> A-1 Operator Club - 10/10# 944 - SOC #11 & #12 - Whiner#10 -

> "QRP! How sweet it is!" "I am da man wit "DAH" paddle!"

>

Date: Tue, 13 Jun 2000 21:41:43 EDT
From: AdamN7YA@aol.com
To: qrp-l@lehigh.edu
Subject: [72641] I'm an Extra too, no worries
Message-ID: <39.6612c93.26783cd7@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

In a message dated 6/13/2000 10:51:04 AM Pacific Daylight Time,
n4bp@bc.seflin.org writes:

<< I (head-hung-in-shame)
have become an "appliance operator". While I can still send and receive
30-35 WPM, I've forgotten almost everything I had learned of a technical
nature many years ago. >>

Hey, no harm no foul here! are you enjoying yourself?...if the answer is
yes, and you hold a callsign, then you are as valid a ham as any. many on
here know how strongly i feel about this. i vehemently oppose any downplaying
of a fellow ham unless they are flagrantly breaking our very good rules....i
too am more of an on-air personality at my station as opposed to being the
engineer, heh heh. i do what i need to do to make a good clean signal...but
the rest is about operating practice to me. and the staple element of that
is having fun...i simply will give up the hobby as soon as it becomes a
source of aggravation to me.

How someone became a ham means little to me, what they do with it once they
become hams means everything to me. whether they elmer, build, design,
compete, ragchew, serve the public, study the solar weather and report back
to us, etc....it takes all kinds.

To me, discrimination of any kind is still discrimination....how many W
stations will jump at the chance to make contact with an Iraqi station? just
about anyone that hears him! how many non-ham Americans or Iraqi citizens
would want to meet one another? perhaps very few. its self imposed borders
and intolerance that will drive a wedge faster than any code testing
requirements.

By the way, i got my extra with the 20 wpm test.....it really doesnt
matter, that was quite a while back. as i sit here in my shack i could easily
turn the rig on and engage in "radio-rage" during a pileup, or call cq on 80
with a message like one i once heard years ago..."no lids kids or space
cadets, no KA's, no WA's, only real hams" or some nonsense like
that.....nope, its my personality, common sense and self control that will
make me a "real" ham....not how i became a ham.

....love your family, it will only grow stronger...if you cant, then

consider your options.

72/73/74...Adam, N7YA
Las Vegas, NV...Zone 03
QRP-L #1608, SOC #143, Y Guy #2
Code Warrior #76, Hamusician #1

Date: Tue, 13 Jun 2000 21:49:36 EDT
From: Rod Johnson <ka7you@juno.com>
To: cmulder@casema.net
Cc: qrp-l@Lehigh.EDU
Subject: [72642] Re: Tonna (F9FT) antennas
Message-ID: <20000613.180657.18319.2.ka7you@juno.com>

The F9FT (Tonna?) company has been out of business for many years.

I have several of the 1296 antennas, and have made many replacement stand-off insulators, but there is no known source for the original ones now.

I presume that is why you are asking.

Rod Johnson

KA7YOU from grid CN97AK near Issaquah, Wa.
80M thru 10M with K2 s/n268 and other fine QRP rigs.
VHF thru 1296 MHz-higher bands pending
ARCI-QRP #7251 QRP-L #844 NWQRP #120 NorCal #2007 SOC#184 and others

On Tue, 13 Jun 2000 23:46:34 +0200 "Carel Mulder" <cmulder@casema.net> writes:

>Does anyone know about a URL of this VHF-antenna manufactor?

>

>Carel, PA0CMU.

>

>-----

>(eureka Karl, I've found it!)

>

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<http://dl.www.juno.com/get/tagj>.

Date: Tue, 13 Jun 2000 19:08:30 -0700
From: Bob Hightower <nk7m@extremezone.com>
To: qrp-1@lehigh.edu, azqrp@extremezone.com, elecrafft@qth.net
Subject: [72643] W5JH Mic Pre-Amp Kit
Message-ID: <200006140204.TAA20078@enterprise.extremezone.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

For those of you who are interested in this kit, which provides mic gain in the K2, go to <http://www.extremezone.com/~nk7m/preamp.htm> to see the kit, and some construction tips. There is also a way to order the kit (\$10.00) on the page.

Those who have ordered the kit already and have sent their payment...the boards are here, and the kits will be mailed tomorrow (Wednesday, 6/14/00).

Bob Hightower NK7M
Chandler, AZ
SOC #20
K2 #157/255

<http://www.extremezone.com/~nk7m>

Date: Tue, 13 Jun 2000 22:17:59 -0700
From: paul taylor <ptay1@miro.bestweb.net>
To: "qrp-1@Lehigh.EDU" <qrp-1@Lehigh.EDU>
Subject: [72644] battery clip leads
Message-ID: <3.0.32.20000613191029.00694998@pop.bestweb.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I have stopped building because of eyesight. One on the things I can see on a hb kit is the battery leads are really thin and do not tolerate any movement.

The usual supplier (radio shack) do not seem to be of any help.

Just re-soldering the leads will only cure the problem until the next time the battery is changed.

any ideas on where to get a 9v battery clip with reasonably strong wire leads?

many thanks

paul

Date: Tue, 13 Jun 2000 23:43:34 -0400
From: Pete Burbank <plburbank@kih.net>
To: <qrp-l@Lehigh.EDU>
Subject: [72645] Re: battery clip leads
Message-ID: <3.0.32.20000613234330.007395f4@kih.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 10:17 PM 6/13/00 -0700, you wrote:

>I have stopped building because of eyesight. One on the things I can see on a
>hb kit is the battery leads are really thin and do not tolerate any
>movement.

The solution is to make your own battery clips plus leads.
With pliers or wire cutters you rip the clip off a defunct
battery. Then use some stout black and red wire soldered to the clip
to connect to your gear. One thing I have begun doing is to mount
the many 9V battery's outside of infrequently used gear on
an angle bracket on the back panel.

Many things here use 9V battery's (such as the crystal tester.
sound level meter, RFI Sniffer etc) and an external mounting
area allows one to snap in a rechargeable nicad for a test and
then the battery goes back in the el-cheapo RS charger.

Beats buying dry cells all the time.

73 Pete NV4V

Date: Tue, 13 Jun 2000 22:56:46 -0500
From: "Maddog 'n' Miracles" <maddog@io.com>
To: jc-smith@worldnet.att.net, qrp-l@Lehigh.edu
Subject: [72646] Re: Power FET PA ?
Message-ID: <4.3.2.7.1.20000613224638.00c21180@mail.io.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

On QRP-L, Mon, 12 Jun 2000 21:11:06 -0700, JC KOHPS wrote:

>Wow, I got a lot of questions (and one flame) about my comments on the "QRP
>kicker." To the flame: I thoroughly enjoy QRP. It has brought back some
>of the old "novice days" excitement for me. Even more I enjoy building
>stuff I can use on the air, and QRP lends itself to that very nicely. BUT,
>I would rather run a KW than make a buddy suffer through impossible copy on
>a sked or a traffic handler need numerous repeats on a net. This is a
>hobby. It's supposed to be FUN, not work. [snip]

I'm with you, JC. I love QRP, but if the QS0 is going down the tubes
because I'm insisting on QRP, or if my signal is causing my QS0 partner

distress, it seems to me the only courteous thing to do is QRO. This assumes, of course, that I have the capability (when I'm portable, I often do not).

Personally, I like the challenge of digging a QRP signal out of the noise, and piecing what few dits and dahs I get into something intelligible. I also understand that some other ops do not have the skill or experience or inclination to find this rewarding. And I enjoy a QSO with them as well as the die-hard QRPer.

Am I alone in this casual approach to QRP?

72/73,
monty N5FC

```
*****
* Monty Northrup (N5FC) * "There is no way to peace: * \      \/  
* Carolyn Blankenship *   peace IS the way."      * \      (**)   
* maddog@io.com       *   http://www.io.com/~maddog/ * /^^^^^^) ~  
*****                               * /^^/^^/^^/
```

Date: Tue, 13 Jun 2000 22:44:12 -0700
From: Radman <radman@best.com>
To: "'paul taylor'" <ptay1@miro.bestweb.net>, Low Power Amateur Radio Discussion
<qrp-1@Lehigh.EDU>
Subject: [72647] RE: battery clip leads
Message-ID: <01BFD588.E6F5CC00@radman.vip.best.com>

Paul & the gang,

I've found the RS #270-324 Heavy Duty snap connectors to be much more reliable than the cheaper RS#270-325 connectors. The cheaper ones tend to develop intermittent connections/breaks in the snap connector (head) itself -- <ugh!>

On the PCB end of things, most of the consumer electronic devices that use these connectors employ some sort of strain relief. You can accomplish this with a generous dab of hot-melt glue to secure the red/black leads to an unused portion of the PC board - takes the strain off the pads/solder connections.

If all of the above fails, you might consider a board-mount 9V connector. No wires is good wires.... ;)

GL es 73,

Conrad Weiss - NN6CW

I have stopped building because of eyesight. One on the things I can see on a

hb kit is the battery leads are really thin and do not tolerate any movement.

The usual supplier (radio shack) do not seem to be of any help.

Just re-soldering the leads will only cure the problem until the next time the battery is changed.

any ideas on where to get a 9v battery clip with reasonably strong wire leads?

many thanks

paul

Date: Wed, 14 Jun 2000 01:05:04 -0500

From: Larry Jones <ljones@flash.net>

To: qrp-l@lehigh.edu

Subject: [72648] GM10 Instructions

Message-ID: <39472090.1531@flash.net>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Greetings gang...

I want to send thanks to all of you that replied to my query. I have a manuel on the way.

Larry N50SG

Garland Tx

Date: Wed, 14 Jun 2000 08:15:37 -0400

From: "Mike Yetsko" <myetsko@insydesw.com>

To: <maddog@io.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: [72649] Re: Power FET PA ?

Message-ID: <008b01bfd5fa\$43d472c0\$2101a8c0@insydesw.com>

MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

You know, I love QRP. In fact, the only radios I've used since 1987 have been at the MOST 45w, and that's my dual-band VHF-UHF in the car. The most on HF has been 25w (the HTX-100) or 15w (the K2), so I'm definately a high power operator. (Although I DO have an old Swan in the basement gathering dust that is known to pump out 400w+ into a dummy load.)

But an attititude that flames someone for wanting to ad a bit of a punch to a QRP rig for those certain times offends me. Am I next because I didn't build my K2 with the 5w limit (by winding the transformer differently)? I think I've turned the K2 up to 10w ONCE for a contact since it's been built. And probably half of my contacts are 1-2w. Not because I like it down there, but because I turn the power back to under 1w to tune the antenna, then do a second tune at about 1w or so. And sometimes (probably about half the time) I just plain forget or don't bother to turn it up to 5w to make the call. If

it works, I don't change it. If I can't get through, then I usually remember "OOPS, the power!" and kick it up to 5w. And while I did turn it up past 5w once while I was in a call that went to trash, I've NEVER so far turned it up to MAKE a call.

Come on people (no, person, as I think 99% of the rest of the people here operate somewhat like I do, but wouldn't get upset over 'more power' being available once in a while), get a life!

Mike

> On QRP-L, Mon, 12 Jun 2000 21:11:06 -0700, JC K0HPS wrote:
> >Wow, I got a lot of questions (and one flame) about my comments on the "QRP
> >kicker." To the flame: I thoroughly enjoy QRP. It has brought back some
> >of the old "novice days" excitement for me. Even more I enjoy building
> >stuff I can use on the air, and QRP lends itself to that very nicely. BUT,
> >I would rather run a KW than make a buddy suffer through impossible copy on
> >a sked or a traffic handler need numerous repeats on a net. This is
a

> >hobby. It's supposed to be FUN, not work. [snip]
>
> I'm with you, JC. I love QRP, but if the QSO is going down the tubes
> because I'm insisting on QRP, or if my signal is causing my QSO
partner
> distress, it seems to me the only courteous thing to do is QR0. This
> assumes, of course, that I have the capability (when I'm portable, I
often
> do not).
>
> Personally, I like the challenge of digging a QRP signal out of the
noise,
> and piecing what few dits and dahs I get into something intelligible.
I
> also understand that some other ops do not have the skill or
experience or
> inclination to find this rewarding. And I enjoy a QSO with them as
well as
> the die-hard QRPer.
>
> Am I alone in this casual approach to QRP?
>
> 72/73,
> monty N5FC

Date: Wed, 14 Jun 2000 08:32:00 -0400
From: "Lau, Zack, W1VT" <z1au@arrl.org>
To: "'qrp-1@Lehigh.EDU'" <qrp-1@Lehigh.EDU>
Subject: [72650] Re: Re QRP VHF/UHF how to
Message-ID: <125490A005E3D3118C9C00805FC743CC8D9AFE@mail.arrl.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

I agree fully with Peter--choose your location first.
Only then is it practical to design your station.

As a rule, any good radio spot that you can drive
up to also has radio transmitters. I don't think any
commercial "do everything" box will handle a 10 kW
VHF transmitter 500 meters away.

OTOH, a lightweight 10 band station with relatively
poor dynamic range might do very well if you are far

from any radio transmitters. Mount Adams in FN24(xa?)
comes to mind--Zack W1VT

Date: Wed, 14 Jun 2000 05:47:59 -0700 (PDT)
From: Curt Milton <wb8yyy@yahoo.com>
To: hattonte@gdls.com, Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [72651] Re: Ten meters
Message-ID: <20000614124759.27577.qmail@web2002.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Terry, what you heard propagation wise was sporadic
E-skip ... often occurs on 10m in the spring & early
summer. In a good Es opening QRP works well ... but
the Es hops are much shorter than F-layer stuff we
should have again this fall a long hop is about
1500 miles and the shortest hops around 400 miles +/-.

I think Es is fun because it is "a moving target."
But it is not DX by usual HF standards, as you can
work the same folk on 40m most of the time. Of
course, on 6m Es is the most common form of "DX"
propagation.

Maybe we should try to do more QRP operating on 10m in
the spring - since there is not the SSB QRM we
experience on 40m (ok the illegals - well at least we
got a lot of room to move away from them), and QRN is
less ... guess i need to build a 10m qrp rig one of
these days so i don't have to use the appliance

Curt WB8YYY

--- hattonte@gdls.com wrote:
> I'm still puzzling over this.
>
> On Friday, having read the horror stories about the
> dreaded SUNSPOTS, I
> nervously turned on the rig and tuned around the ten
> meter band. And
> here, in 8-land, I heard no less than 6 beacons from
> all-over: N9 at 1
> watt, W0, N1, K4, VA3, VE4.
>
> Aha, perhaps the Monster had not yet Struck!
>

> But wait, there were NO qso's, no cq's. How could
> this be?
>
> Mindful that a Wiseman of qrp-l fame had once
> suggested that there may be
> Elephants where there are not Alligators, I decided
> to throw my hat into
> the ring. "CQ" I said loudly and slowly, many
> times, flexing my tiny
> transistors at an impressive 5 watts. On all the
> Best Frequencies, too
> (CW frequencies of course, not PSK31 frequencies).
>
> And yet there are 100 letters a day to qrp-l.
> Maybe that's why there was
> nobody out there. All too busy writing memos, were
> we?
>
> Hmmm.
>
> de Terry W1QF
> Fists 7221
>

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Date: Wed, 14 Jun 2000 10:22:08 -0400
From: Bruce Muscolino <w6toy@erols.com>
To: myetsko@insydesw.com
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [72652] Re: Power FET PA ?
Message-ID: <39479510.CF3@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Mike, and the rest of you,

This is a very interesting thread. It may give us a glimpse of what is truly wrong with QRP these days. It just isn't fun anymore, especially when someone is looking over your shoulder and watching how much power you run to the milliwatt!

Really, power is like aspirin, use what you need and when you don't need it don't open the bottle. If you have a real bad headache take two aspirin, maybe every six hours, and call the doctor in the morning if it does not go away. Otherwise, leave the bottle in the medicine cabinet!

I got into QRP because it seemed like fun. I knew from years of low power operation the power was unnecessary to make contacts. After a lifetime of never running more than 100 watts and more often 15 watts or less, and those were in the days when we measured INPUT power! Operating at low power levels did not hold any mysteries for me.

I had learned as an engineer that you need to raise the input power a lot to get a 3 dB signal increase at the receiver. And 3 dB is just about the point where you can distinguish that the other station has raised power. A 3 dB increase at your 5 watt transmitter is only TEN watts.

I truly don't see where the point of this thread is going. No one in the real world (defined as more than 5 kHz away from the QRP calling frequencies) cares how much power you are running. The only time it is important is for awards or contests, and I defy anyone to prove an entry was made using 5 watts or 25 watts!

Lighten up. Run what you bring, as the drag racers used to say. Look at your output during contests and when you are making QSOs for an award. Remember, the idea here is to have fun. IF it takes 10 watts to have fun, by all means run 10 watts!

73

Date: Wed, 14 Jun 2000 11:20:08 -0400
From: tailfeathers@juno.com
To: qrp-l@lehigh.edu
Subject: [72653] Blt tuner question
Message-ID: <20000614.112013.-4021955.0.tailfeathers@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

Hello fellow blt builders. I have a question or two.....

1...The instructions say the c2,c3 capacitors trimmer adjustment caps are to be set at their lowest capacitance? and be fully unmeshed?

2...In the tuner layout is the front panel with c2,c3,sw1,and the led

actually upside down? And is the (Details of switch wiring) to the right of the diagram a view from the rear of the switch as if it were installed?

More questions after we cover this part...

Gary
n8gsj

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<http://dl.www.juno.com/get/tagj>.

Date: Wed, 14 Jun 2000 11:35:45 -0400
From: John Wagner <john@neknetwork.com>
To: tailfeathers@juno.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [72654] Re: Blt tuner question
Message-ID: <3947A651.AFC71290@neknetwork.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

tailfeathers@juno.com wrote:

>
> Hello fellow blt builders. I have a question or two.....
>
> # 1...The instructions say the c2,c3 capacitors trimmer adjustment caps
> are to be set at their lowest capacitance? and be fully unmeshed?

My take on this was to turn the two trimmers on the back so they are not overlapping. That's what I did, my tuner works.

> # 2...In the tuner layout is the front panel with c2,c3,sw1,and the led
> actually upside down? And is the (Details of switch wiring) to the right
> of the diagram a view from the rear of the switch as if it were
> installed?

I think the front panel is depicted as if you're look at it from rear of the box towards the front, with the bottom part being at the bottom edge of the paper. Confusing, but that's how I built mine. Just line it up with the holes you drilled.

John, KB1ENS

>

> More questions after we cover this part...
> Gary
> n8gsj
> -----
> YOU'RE PAYING TOO MUCH FOR THE INTERNET!
> Juno now offers FREE Internet Access!
> Try it today - there's no risk! For your FREE software, visit:
> <http://dl.www.juno.com/get/tagj>.

--

John Wagner - john@neknetwork.com
Web page: <http://www.neknetwork.com>
Sign up for PayPal:
<https://secure.paypal.com/refer/pal=john%40neknetwork.com>

Date: Wed, 14 Jun 2000 12:02:39 -0400
From: Mark Sailer <msailer@buoy.com>
To: qrp-1 <qrp-1@lehigh.edu>
Subject: [72655] FS: Elecraft K2 blank cases (EC2)
Message-ID: <3947AC9F.94BFDEB3@buoy.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Folks,

My K2 has gone to another ham. I have 2 blank cases that were going to be used for other projects, but that is not happening. So, I'm parting with the blanks cases.
\$53 shipped - they are already assembled too.

Reply to me directly if interested.

Thanks
Mark

Date: Wed, 14 Jun 2000 12:07:43 -0400
From: "Victor Blackwell" <victor@brecnet.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [72656] Noise Generator
Message-ID: <000f01bfd61a\$d34261e0\$575730d1@victor>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Group,

I need to build a noise generator for testing receivers. I think this can be done by reverse biasing certain types of diodes. Am I on the right track or does some one have a clue that would help me out. I want to noise to ouput on the upper HF frequencies.

Vic AD8K

Date: Wed, 14 Jun 2000 10:26:48 -0600
From: zmola@campbellsci.com
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [72657] BLT manual
Message-ID: <200006141021.KAA30038@demeter.campbellsci.com>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

Does anyone have a copy of the BLT manual that they can send me? My kit didn't come with one and Doug seems to be away for a while.

Carl
AC7BB

Carl
zmola@campbellsci.com

Date: Wed, 14 Jun 2000 09:18:46 PDT
From: "Leon Heller" <leon_heller@hotmail.com>
To: rattray@gpfn.sk.ca, qrp-1@Lehigh.EDU
Subject: [72658] Re: audio chips
Message-ID: <20000614161846.1968.qmail@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

>I'm having a ball learning about the "LM" audio chips....with everyone's

>help I'm starting to learn a bit about these critters...as a note of
>interest regarding the LM380 and its "screaming banshees" mode, just for
>starters,

The newer audio amp. chips are *much* nicer, easier to use, and cost about the same. I like the Philips TDA7052. It doesn't need any external components apart from some decoupling, not even a capacitor in series with the speaker.

73, Leon

--

Leon Heller, G1HSM

Tel (work): +44 1327 357824 Tel (mobile): +44 79 9098 1221

InfraRed Integrated Systems Ltd., Towcester Mill, Towcester, Northants.,
NN12 6AD, United Kingdom.

Email:leon_heller@hotmail.com

Web page: <http://www.geocities.com/SiliconValley/Code/1835>

Get Your Private, Free E-mail from MSN Hotmail at <http://www.hotmail.com>

Date: Wed, 14 Jun 2000 09:23:17 PDT
From: "Leon Heller" <leon_heller@hotmail.com>
To: victor@brecnet.com, qrp-1@Lehigh.EDU
Subject: [72659] Re: Noise Generator
Message-ID: <20000614162317.8973.qmail@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

>Group,

>

>I need to build a noise generator for testing receivers. I think this can
>be done by reverse biasing certain types of diodes. Am I on the right
>track
>or does some one have a clue that would help me out. I want to noise to
>ouput on the upper HF frequencies.

You can get special noise generator diodes, but a Zener diode works fine for HF - reverse bias it through a suitable resistor and feed the noise into a

broad-band amp. via a capacitor. If you don't have a suitable Zener, you can use a reverse-biased transistor junction, it'll behave like a 9V or so Zener diode.

73, Leon

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Date: Wed, 14 Jun 2000 12:23:18 -0400
From: Mark Sailer <msailer@buoy.com>
To: qrp-1 <qrp-1@lehigh.edu>
Subject: [72660] FS: Elecraft K2 blank cases (EC2) - clarification
Message-ID: <3947B176.2D7D3CDB@buoy.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Folks,

My K2 has gone to another ham. I have 2 blank cases that were going to be used for other projects, but that is not happening. So, I'm parting with the blanks cases.
\$53 *each* shipped - they are already assembled too.

Reply to me directly if interested.

Thanks
Mark

Date: Wed, 14 Jun 2000 11:23:11 -0500
From: Karl Kanalz <KKanalz@excel.com>
To: "'victor@brechnet.com'" <victor@brechnet.com>, Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [72661] RE: Noise Generator
Message-ID: <2D343922E283D211945C0008C7A41B2A02B20CD0@adntex01.adsn.dal.excel.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

I believe your noise diode should have forward bias (at relatively low current),
rather than reverse bias.

Karl K - W8TIF
McKinney, Texas

-----Original Message-----

From: Victor Blackwell [mailto:victor@brecnet.com]
Sent: Wednesday, June 14, 2000 11:08 AM
To: Low Power Amateur Radio Discussion
Subject: Noise Generator

Group,

I need to build a noise generator for testing receivers. I think this can be done by reverse biasing certain types of diodes. Am I on the right track or does some one have a clue that would help me out. I want to noise to ouput on the upper HF frequencies.

Vic AD8K

Date: Wed, 14 Jun 2000 09:27:40 -0700 (MST)
From: Chris Trask <ctrask@primenet.com>
To: Victor Blackwell <victor@brecnet.com>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [72662] Re: Noise Generator
Message-ID: <Pine.BSI.3.96.1000614092646.13161B-1000000@usr05.primenet.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Vic,

Take a look at the technical bibliographies on my web page at:

<http://www.primenet.com/~ctrask>

I should have some articles from QST and Ham Radio listed under Noise Figure that could be of help.

Chris

On Wed, 14 Jun 2000, Victor Blackwell wrote:

> Group,

>

> I need to build a noise generator for testing receivers. I think this can
> be done by reverse biasing certain types of diodes. Am I on the right track
> or does some one have a clue that would help me out. I want to noise to
> ouput on the upper HF frequencies.

>

> Vic AD8K
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Principal Engineer
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Tempe, Arizona 85285-5240

IEEE Member #40274515

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<http://www.primenet.com/~ctrask>

Graphics by Loek Frederiks

Date: Wed, 14 Jun 2000 11:27:42 -0500
From: "Kevin Muenzler, WB5RUE" <wb5rue@stic.net>
To: <victor@brechnet.com>, "'Low Power Amateur Radio Discussion'" <qrp-1@Lehigh.EDU>
Subject: [72663] RE: Noise Generator
Message-ID: <000001bfd61d\$7718e8a0\$ef5d6f81@v8.uthscsa.edu>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Yes, you can reverse bias a regular Germanium (1N34) diode. It should be good through 10-meters.

73/72
Kevin, WB5RUE

> -----Original Message-----
> From: owner-qrp-1@Lehigh.EDU
> [mailto:owner-qrp-1@Lehigh.EDU]On Behalf Of
> Victor Blackwell
> Sent: Wednesday, June 14, 2000 11:08 AM

> To: Low Power Amateur Radio Discussion
> Subject: Noise Generator
>
>
> Group,
>
> I need to build a noise generator for testing receivers. I
> think this can
> be done by reverse biasing certain types of diodes. Am I on
> the right track
> or does some one have a clue that would help me out. I want
> to noise to
> ouput on the upper HF frequencies.
>
> Vic AD8K
>
>

Date: Wed, 14 Jun 2000 09:32:00 -0700
From: Charlie Panek <charlie_paneke@agilent.com>
To: qrp-l@Lehigh.EDU
Cc: ptay1@miro.bestweb.net
Subject: [72664] Re: battery clip leads
Message-ID: <3947B380.977D3B84@agilent.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

> From: paul taylor (ptay1@miro.bestweb.net)
[...]
> any ideas on where to get a 9v battery clip with reasonably strong wire leads?
> many thanks
> paul

Mouser sells a big selection of battery clips, including
standard clips with 22 AWG wire (Mouser # 12BC166),
and high reliability clips with 24 gauge wire (Mouser # 123-7016)
(<http://www.mouser.com>)

Charlie
KX7L

--
Charlie Panek
mailto:charlie_paneke@agilent.com
Agilent Technologies Inc.
Everett, Washington

Date: Thu, 15 Jun 2000 02:55:46 +1000
From: "Ian C. Purdie VK2TIP" <ianpurdie@integritynet.com.au>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [72665] Tech On Line
Message-ID: <3947B912.3B27F57D@integritynet.com.au>
MIME-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1
Content-Transfer-Encoding: 8bit

Gang,

Partminer announced today a new site

<snip>

TechOnLine (<http://www.techonline.com>) regularly adds new FREE online courses and lectures to our vast University. Find the information you need to select the right products and build better designs. Following are a few recent introductions found only at TechOnLine:

- Motorola DSP Products
- Data Networking Hardware: Switches
- Wind River HSI's How to Design with the 8260

TechOnLine also features specialized Nets focused on product, company, event and job information in these technology areas:

- Analog/Mixed-Signal
- DSP
- EDA
- Embedded Systems
- Internet Appliances

</snip>

No connection but could interest QRP'ers

72/73's

Ian Purdie Budgewoi N.S.W. Australia - Co-ords 33o:14' S 151o:34' E
My FREE Newsletter:- <mailto:vk2tip@qsl.net?Subject=Subscribe>
VK2TIP "I'll give ya the TIP mate" QRP-L #1978. SOC #171 "duh?"
URL - <http://www.integritynet.com.au/~purdic/>

Date: Wed, 14 Jun 2000 12:58:30 -0400
From: "AI2Q Alex" <ai2q@ispchannel.com>
To: <ianpurdie@integritynet.com.au>
Cc: "QRP-L (E-mail)" <qrp-l@Lehigh.EDU>
Subject: [72666] RE: Tech On Line
Message-ID: <000001bfd621\$c4f02300\$5c32a7d0@ispchannel.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Ian:

Another site that's similar and may be worthwhile to QRPers and homebrewers, etc. is ChipCenter at www.chipcenter.com. It also hosts Circuit Cellar material, which is often ham radio related. At least three of ChipCenter's editors are also active Radio Amateurs, and two of them are known QRPers (I'm one of 'em)!

Vy 73, AI2Q, Alex in Kennebunk, Maine QRP-L 687 .-.-.

-----Original Message-----

From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU] On Behalf Of Ian C. Purdie VK2TIP
Sent: Wednesday, June 14, 2000 12:56 PM
To: Low Power Amateur Radio Discussion
Subject: Tech On Line

Gang,

Partminer announced today a new site

<snip>

TechOnline (<http://www.techonline.com>) regularly adds new FREE online courses and lectures to our vast University. Find the information you need to select the right products and build better designs. Following are a few recent introductions found only at TechOnline:

- Motorola DSP Products
- Data Networking Hardware: Switches
- Wind River HSI's How to Design with the 8260

TechOnLine also features specialized Nets focused on product, company, event and job information in these technology areas:

- Analog/Mixed-Signal
- DSP
- EDA
- Embedded Systems
- Internet Appliances

</snip>

No connection but could interest QRP'ers

72/73's

Ian Purdie Budgewoi N.S.W. Australia - Co-ords 33o:14' S 151o:34' E
My FREE Newsletter:- <mailto:vk2tip@qsl.net?Subject=Subscribe>
VK2TIP "I'll give ya the TIP mate" QRP-L #1978. SOC #171 "duh?"
URL - <http://www.integritynet.com.au/~purdic/>

Date: 12 Jun 2000 13:09:07 -0400
From: Glen Leinweber <leinwebe@mcmail.cis.McMaster.CA>
To: victor@brecnet.com
Cc: qrp-l;;
Subject: [72667] Re: Noise Generator
Message-ID: <2000Jun12.130907-0400@[130.113.234.7]>

Vic,

Yes, an avalanche diode (or zener) will make an excellent noise generator, and doesn't need to be amplified, if you intend to test noise figure of amplifiers. As a matter of fact, I ATTENUATE the noise-diode's output, to ensure a 50 ohm output Z.

I have used the base-emitter junction of a 2N3904 transistor as a noise source - actually am measuring it on a spectrum analyser right now (talk about deja vu). A suitable bias circuit is shown in the HANDBOOK. The 2N3904 will start conducting (noisy) current with about 7.5 volts across its base-emitter junction (+ on emitter, - on base). A current-limiting series resistor is required.

My circuit is putting out about 30 dB excess noise. It is broadband within 1 dB from 2 - 50 MHz. Current is set to 3.9mA. When used with a step attenuator, and with a RMS meter monitoring your radio output, you can optimize preamps for best noise figure. If you can calibrate your noise source, then you can measure noise

figure. Calibration requires some decent test instruments.

Or you can buy a NOISECOM diode made for this purpose, and they will calibrate your circuit for a small fee. (Its in the HANDBOOK)

-Glen VE3DNL

In <000f01bfd61a\$d34261e0\$575730d1@victor>, Victor Blackwell wrote:

>I need to build a noise generator for testing receivers. I think this can
>be done by reverse biasing certain types of diodes.

Date: 14 Jun 00 10:40:22 PDT

From: Andrew Madsen <MADSENANDREW@netscape.net>

To: <qrp-l@Lehigh.EDU>

Subject: [72668] A source for crystals

Message-ID: <20000614174022.15578.qmail@www0v.netaddress.usa.net>

Mime-Version: 1.0

Content-Type: text/plain; charset=US-ASCII

Content-Transfer-Encoding: quoted-printable

Hi all,

I'm now looking for crystals for popular amateur frequencies. 7.040MHz is
n

particular. I would also like crystals for 14.060, and somewhere in the =
30

meter band. Crystals for 3.579545MHz are everywhere, so 80 meters isn't =
a

problem. I know crystals for these frequencies(at least 7.040) are out t=
here,

because they are used in various QRP kits. Thanks in advance for help.

Thanks es 73,

Andrew R. Madsen AC7CF

<http://www.qsl.net/ac7cf>

Get your own FREE, personal Netscape WebMail account today at <http://webmail.netscape.com>.

Date: Wed, 14 Jun 2000 13:48:03 -0400

From: "Hare, Ed, W1RFI" <w1rfi@arrl.org>

To: "'n4so@juno.com'" <n4so@juno.com>, Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Subject: [72669] RE: Touch-Controlled Lamps RFI

Message-ID: <125490A005E3D3118C9C00805FC743CC3E1E14@mail.arrl.org>

MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

See <http://www.arrl.org/tis/info/touchlamp.html>. Reprints of most ARRL articles are there as pdf files.

73,
Ed Hare, W1RFI
ARRL Laboratory Supervisor
225 Main St
Newington, CT 06111
Tel: 860-594-0318
FAX: 860-594-0259
Internet: w1rfi@arrl.org
ARRL Web: <http://www.arrl.org>
ARRL Technical Information Service: <http://www.arrl.org/tis/>

-----Original Message-----
From: Charles K Brown [<mailto:n4so@juno.com>]
Sent: Monday, June 12, 2000 8:02 PM
To: Low Power Amateur Radio Discussion
Subject: Touch-Controlled Lamps RFI

Hints and Kinks QST April 1995 page 72.

"Low-Pass Filter Cures Touch-Lamp Interference"
discusses making a low pass filter from two 82 pf
caps and a 2.2 mh choke. Discussion is on nearly
the entire page and relates calculating the values
for the low pass filter based on the lamp's oscillator.

Ken Brown N4S0
Mobile, AL EM50tk
NorCal 20 at 5 watts
4 element yagi

YOU'RE PAYING TOO MUCH FOR THE INTERNET!
Juno now offers FREE Internet Access!
Try it today - there's no risk! For your FREE software, visit:
<http://dl.www.juno.com/get/tagj>.

Date: Wed, 14 Jun 2000 14:06:26 -0400
From: "Hare, Ed, W1RFI" <w1rfi@arrl.org>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [72670] RE: QST QRP Issue
Message-ID: <125490A005E3D3118C9C00805FC743CC3E1E15@mail.arrl.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Thanks, Pete,

Glad you liked it.

And let me publically apologize for being late with the March issues; I had a lot of requests and had to get some from our warehouse. :-) Okay... I got really busy and sent them out a few at a time.

I actually got a few extra, so if anyone missed the March QST "QRP" issue, let me know and I will send you one.

73,
Ed Hare, W1RFI
ARRL Lab

-----Original Message-----

From: Pete Burbank [mailto:plburbank@kih.net]
Sent: Saturday, June 10, 2000 6:42 PM
To: Low Power Amateur Radio Discussion
Subject: QST QRP Issue

I want to publicly thank Ed Hare W1RFI for the March 2000 issue which includes the TT-2. It was a great surprise in my mailbox! 2 QSOs from here to that rig so great fun!!!

While looking through some old issues of QST, I came across an amplifier for that rig (Feb,77) called the Codzilla 1 by K6QIC. It has an RS2038 for a final amp for 3.5 watts on 40 meters.

73 to all.

Pete NV4V

(yes Codzilla is spelled with one L)

Date: Wed, 14 Jun 2000 14:14:21 -0400
From: "Richard E. Robinson" <rerobins@email.uncc.edu>
To: qrp-l@lehigh.edu
Subject: [72671] Geeky Snake Oil

Message-ID: <v03110707b56d552e32b6@[152.15.144.71]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

List cops and the humor impaired should delete this message.

I'm setting up a small statistical research lab today in the Psych Dept. There are 8 new Gateway P III 550MHz screamers replacing some old 66MHz Macs. We even bought 8 new Tripp Lite Isobar surge suppressors for our new toys.

The first Isobar box I picked up had a "Microsoft Windows Compatible" logo on the front. Was I ever relieved to find that we hadn't ordered the MacOS compatible surge suppressors by mistake. That sure saved me some headaches.

I'll bet your next question was the same as mine. "That's great, but is it Internet ready?" No worries mate, the box proudly states "Isotel surge suppressors are INTERNET-READY". (Their emphasis, not mine.) Wow! Those clever Tripp Lite folks thought of everything. It even has a little warning light that goes out to let you know when the power goes off. Amazing!

Next time you need a surge suppressor, make sure it's for the proper operating system you're running and also internet ready. We sure would hate to lose someone from the qrp-l list due to buying an incompatible surge suppressor.

72,

Rick kf4ar

I have my MacOS compatible, surge protected, Internet ready, flame suit on.

Date: Wed, 14 Jun 2000 14:15:57 -0400
From: "Hare, Ed, W1RFI" <w1rfi@arrl.org>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [72672] RE: I'm an Extra and proud of it.
Message-ID: <125490A005E3D3118C9C00805FC743CC3E1E16@mail.arrl.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Hi, Bob,

Well, your ability with Morse code makes you a good Morse code qualified ham. Others' technical abilities make them good technically qualified hams. Each of us contributes to ham radio in our own ways, and each can be proud of our individuality.

Although taking and passing the Extra exam is indeed an accomplishment and worthy of feeling proud, for most hams who have been at it a while, their accomplishments within Amateur Radio far surpass those things they did to enter ham radio. And we each do those our own ways, too. Us QRP types can be quite proud of doing more with less (and we are!), but those who put together "world class" stations or who operate emergency nets or who experiment and promote "new" modes can be equally proud.

I think there is enough pride in the Amateur Radio, and potential accomplishments, to go around.

73,
Ed Hare, W1RFI

-----Original Message-----

From: Bob Patten [mailto:n4bp@bc.seflin.org]

Sent: Tuesday, June 13, 2000 1:50 PM

To: Low Power Amateur Radio Discussion

Subject: Re: I'm an Extra and proud of it.

On Tue, 13 Jun 2000, Cla KA0GKC wrote:

>

> to realize this and get your head out of your lower 25kHz. And before you go

> and hit the reply button, consider this: Could you walk in to the next VE session sit down and pass the current Extra written exam?

>

Good post, Cla. I have never commented on this Extra / Extra Lite garbage and would be a fool to try and distinguish myself as the former. I did pass the Extra some 45 years ago, but almost certainly could not walk into a VE session and pass the written now. I (head-hung-in-shame) have become an "appliance operator". While I can still send and receive 30-35 WPM, I've forgotten almost everything I had learned of a technical nature many years ago. The extent of my technical expertise is to be able to follow directions and assemble kits and simple from-scratch projects. I also enjoy modifying equipment to (hopefully) make it work better. Thank God for people like you who share their expertise with appliance operators like me! I'm proud of my ability to send and receive the Morris Code, but it certainly doesn't make me any better than anyone else!

73,

Bob Patten, N4BP

(0 0)

Plantation, FL

-----o00o-(_)-o00-----

E-Mail: n4bp@bc.seflin.org
Web Page: <http://www.qsl.net/n4bp>
Brass Pounder BBS: (954) 472-7715
SOC #1Whiners #6

Date: Wed, 14 Jun 2000 14:17:48 -0400
From: "Hare, Ed, W1RFI" <w1rfi@arrl.org>
To: "'wb5rue@stic.net'" <wb5rue@stic.net>, "'Low Power Amateur Radio Discussion'"
<qrp-1@Lehigh.EDU>
Subject: [72673] RE: DSL?
Message-ID: <125490A005E3D3118C9C00805FC743CC3E1E17@mail.arrl.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

>From the reports I have received, the DSL would not have caused that. The
problem was probably the in-home network. Has anyone else experienced such
problems? Can you supply info about the devices in question?

73,

Ed Hare, W1RFI
ARRL Laboratory Supervisor
225 Main St
Newington, CT 06111
Tel: 860-594-0318
FAX: 860-594-0259
Internet: w1rfi@arrl.org
ARRL Web: <http://www.arrl.org>
ARRL Technical Information Service: <http://www.arrl.org/tis/>

-----Original Message-----

From: Kevin Muenzler WB5RUE [mailto:wb5rue@stic.net]
Sent: Tuesday, June 06, 2000 10:07 PM
To: w1rfi@arrl.org; 'Low Power Amateur Radio Discussion'
Subject: RE: DSL?

I had a "neighbor" some quarter of a mile away install DSL and a small

in-home network in his house. He was only in this house for a period of six months while he did some work for the county. During this time I was "blessed" with S5 to S9 noise levels from 160-2 meters. It was severe enough on 2 meters to prevent me from doing any real DX SSB. I helped him shield his network cables by using some shielded twisted pair lines but the DSL still gave me severe noise all across HF. SO, if you want to "abandon" HF or at least weak signal HF DSL will be fine. (sarcasm)

72/73

Kevin, WB5RUE

> -----Original Message-----

> From: owner-qrp-1@Lehigh.EDU

> [mailto:owner-qrp-1@Lehigh.EDU]On Behalf Of

> Hare, Ed, W1RFI

> Sent: Tuesday, June 06, 2000 5:56 PM

> To: Low Power Amateur Radio Discussion

> Subject: RE: DSL?

>

>

> While we are on the subject of DSL, can anyone share with me

> any reports of

> AM BC and HF noise levels before and after a DSL installation?

>

> I would be especially interested in any VDSL reports.

>

> 73,

> Ed Hare, W1RFI

> ARRL Laboratory Supervisor

> 225 Main St

> Newington, CT 06111

> Tel: 860-594-0318

> FAX: 860-594-0259

> Internet: w1rfi@arrl.org

> ARRL Web: <http://www.arrl.org>

> ARRL Technical Information Service: <http://www.arrl.org/tis/>

>

>

>

> -----Original Message-----

> From: James Skalski [mailto:jskalski@localnet.com]

> Sent: Tuesday, June 06, 2000 6:44 PM

> To: Low Power Amateur Radio Discussion

> Subject: OT: DSL?

>

>

> I am thinking of dumping my ISP and going to DSL. This would

> allow me to

> drop the dedicated phone line and the ISP charge.
>
> Does anyone have an opinion about whether I should get a splitter or
> microfilters for my phones? I am close enough to the Phoneco
> at 4900feet
> for any type of DSL. I would probably opt for the cheapest
> version which
> would be about \$49. That would bring it close to the cost of
> a separate
> phone and ISP. It would a performance increase of about 11X.
>
> What kinds of rates are you guys getting? Direct response might be
> best. Although this list is internet based and might be useful info.
>
> 73,
>
> Jim n2go
>

Date: Wed, 14 Jun 2000 14:27:21 -0400
From: "Mike Yetsko" <myetsko@insydesw.com>
To: <rerobins@email.uncc.edu>, "Low Power Amateur Radio Discussion" <qrp-
1@Lehigh.EDU>
Subject: [72674] Re: Geeky Snake Oil
Message-ID: <017601bfd62e\$33270c60\$2101a8c0@insydesw.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Well... WAY back when... MANY versions ago... (about 1980)
The discussion turned to the phrase "User Friendly" when someone
had the audacity to ask what it meant. The consensus was that
something is 'User Friendly' when it has a page in the manual
that says it is user friendly. (And if I'm not mistaken, that
definition
actually went out in one manual set!)

But those were the days, when a troubleshooting flowchart actually
had a decision tree that went "Check the voltage at pin x and make
sure it is high" followed by "check the design engineer and make
sure he is not high". Again, out the door to customers.

Now to balance that, I got called into a VPs office to be read the
riot act because a ROM went out the door and in front of a customer
the screen suddenly said "Wrong key Bozo, try again!". But the

riot act got deflected, after I PROVED that the phrase on the screen at that critical moment actually saved the sale.

No sense of humor some of these corporate types....

(The phrase was NEVER taken out of the ROM!)

Mike

----- Original Message -----

From: Richard E. Robinson <rerobins@email.uncc.edu>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Sent: Wednesday, June 14, 2000 2:14 PM
Subject: Geeky Snake Oil

> List cops and the humor impaired should delete this message.
>
> I'm setting up a small statistical research lab today in the Psych
Dept.
> There are 8 new Gateway P III 550MHz screamers replacing some old
66MHz
> Macs. We even bought 8 new Tripp Lite Isobar surge suppressors for our
new
> toys.
>
> The first Isobar box I picked up had a "Microsoft Windows Compatible"
logo
> on the front. Was I ever relieved to find that we hadn't ordered the
MacOS
> compatible surge suppressors by mistake. That sure saved me some
headaches.
>
> I'll bet your next question was the same as mine. "That's great, but
is it
> Internet ready?" No worries mate, the box proudly states "Isotel
surge
> suppressors are INTERNET-READY". (Their emphasis, not mine.) Wow!
Those
> clever Tripp Lite folks thought of everything. It even has a little
> warning light that goes out to let you know when the power goes off.
> Amazing!
>
> Next time you need a surge suppressor, make sure it's for the proper
> operating system you're running and also internet ready. We sure
would
> hate to lose someone from the qrp-1 list due to buying an incompatible

> surge suppressor.
>
> 72,
>
> Rick kf4ar
>
> I have my MacOS compatible, surge protected, Internet ready, flame
suit on.
>
>
>
>

Date: Wed, 14 Jun 2000 14:30:18 -0400
From: "Doug Person" <w4dxv@attglobal.net>
To: <rerobins@email.uncc.edu>, "Low Power Amateur Radio Discussion" <qrp-
l@lehigh.edu>
Subject: [72675] Re: Geeky Snake Oil
Message-ID: <001001bfd62e\$98471c20\$5d34e320@ibmus2.ibm.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Stop it, you're killing me!! Can't stop laughing! My clients think I've lost
my mind!

Doug Person -- W4DXV

e-Business Architect - IBM Global Services

----- Original Message -----

From: "Richard E. Robinson" <rerobins@email.uncc.edu>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Wednesday, June 14, 2000 2:14 PM
Subject: Geeky Snake Oil

> List cops and the humor impaired should delete this message.
>
> I'm setting up a small statistical research lab today in the Psych Dept.
> There are 8 new Gateway P III 550MHz screamers replacing some old 66MHz
> Macs. We even bought 8 new Tripp Lite Isobar surge suppressors for our new
> toys.
>

> The first Isobar box I picked up had a "Microsoft Windows Compatible" logo
> on the front. Was I ever relieved to find that we hadn't ordered the
MacOS
> compatible surge suppressors by mistake. That sure saved me some
headaches.
>
> I'll bet your next question was the same as mine. "That's great, but is
it
> Internet ready?" No worries mate, the box proudly states "Isotel surge
> suppressors are INTERNET-READY". (Their emphasis, not mine.) Wow! Those
> clever Tripp Lite folks thought of everything. It even has a little
> warning light that goes out to let you know when the power goes off.
> Amazing!
>
> Next time you need a surge suppressor, make sure it's for the proper
> operating system you're running and also internet ready. We sure would
> hate to lose someone from the qrp-l list due to buying an incompatible
> surge suppressor.
>
> 72,
>
> Rick kf4ar
>
> I have my MacOS compatible, surge protected, Internet ready, flame suit
on.
>
>
>
>

Date: Wed, 14 Jun 2000 12:42:03 -0600 (MDT)
From: "Paul Harden, NA5N" <na5n@rt66.com>
To: qrp-l@lehigh.edu
Cc: "Prof. Arnaldo Coro Antich" <inforhc@mail.infocom.etecsa.cu>, gqrp@onelist.com
Subject: [72676] Handy Guide for Solar Conditions
Message-ID: <Pine.SUN.4.10.10006141225210.16774-100000@shell.rt66.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Gang,
Many have asked me about what all the numbers for K-index, A-index, etc.
mean. I prepared a thing a couple of years ago, but seemed to have lost
it. Thanks to Vic Black AB6SO who had it tucked away in his hard drive
and forwarded it to me. It appears below. Hope it makes some of the

"numbers" make more sense.

72, Paul NA5N

Delete everything down to here
and it should print on a single sheet.
Use a monospaced font for proper
text and column alignment.

|
| delete to here
|
|
V

THE HANDIMAN'S GUIDE TO SOLAR/GEOMAGNETIC CONDITIONS
from Paul Harden, NA5N

GEOMAGNETIC INDICES AND CONDITIONS

Kp	Ap	GEOMAGNETIC	HF	
Index=	Index=	FIELD CONDITIONS	NOISE	AURORA
0	0 - 2	Very Quiet	S1-S2	None
1	3 - 5	Quiet	S1-S2	Very Low
2	6 - 9	Quiet	S1-S2	Very Low
3	12 - 18	Unsettled	S2-S3	Low
4	22 - 32	Active	S3-S4	Moderate
5	39 - 56	MINOR Storm	S4-S6	High
6	67 - 94	MAJOR Storm	S6-S9	Very High
7	111 -154	SEVERE Storm	S9+	Very High
8	179 -236	SEVERE Storm	Blackout	Extreme
9	300 -400	EXTREMELY SEVERE	Blackout	Extreme

Kp= Planetary K-index, averaged over past 3 hours and tends
to be a measure of current conditions

Ap= Planetary A-index, 24-hour average and represents overall
geomagnetic field conditions for the UTC day

HF Noise= approximate "S-meter" noise level <10 MHz.

Aurora - Approximate level of auroral activity

High conditions usually extends to: Latitude 45 deg.

Very High conditions extends to about: Latitude 35 deg.

Extreme conditions can extend to below: Latitude 35 deg.

SOLAR WIND averages 350-450 km/sec and density <10 p/cm³

>500 km/sec or high density can trigger geomagnetic activity

SHOCK WAVE from a solar flare or Coronal Mass Ejection (CME)

arrives at the Earth about 55 hours after the solar event.

SOLAR FLARE CLASSIFICATIONS

FLARE CLASS	TYPE OF FLARE	HF RADIO EFFECTS	RESULTING GEOMAGNETIC STORM
A	Very small	None	None
B	Small	None	None
C	Moderate	*Low absorption	*Active to Minor
M	Large	*High absorption	*Minor to Major
X	Extreme	*Poss. blackout	*Major to Severe

*Conditions cited if Earth is in trajectory of flare emissions

Flare class further rated from 1-9, ex. M1, M2, M3 ... M9

The larger the number, the larger the flare within that class
An X7-X9 is considered a "Grand daddy" flare. Only a few have
occured over the past 30 years and causes total disruptions
to communications, huge aurora's, power grid failures, etc.

Radio and x-ray emissions from a flare effect the Earth for the
duration of the solar event, usually 30 minutes or less.

The Earth is 8 light minutes from the Sun.

SUNSPOT/ACTIVE REGION CLASSIFICATIONS

SUNSPOT CLASS	DESCRIPTION OF THE ACTIVE REGION	POTENTIAL FOR FLARE ACTIVITY
Alpha	Unorganized, unipolar magnetic fields	Little threat, but watched for growth
Beta	Bipolar magnetic fields between sun spots	C class flares and possible large M class
Delta	Strong, compact bipolar fields between spots	High potential for a M or X class major flare Major Flare Alert issued

----- cut here -----

Above designed for printing out on 8.5x11 sheet for a handy reference.

Above information may be freely used in other newsgroups, ham radio
reflectors, non-profit journals, etc. without permission providing

credit is cited.

If there's anything you feel should be included, let me know.

72, Paul NA5N
National Radio Astronomy Observatory
VLA/VLBA Radio Telescopes
Socorro, New Mexico
NA5N@Rt66.com

Date: Wed, 14 Jun 2000 14:19:42 -0500
From: Gary Lee Phillips KA9NZI <ka9nzi@arrl.net>
To: qrp-l@Lehigh.EDU
Subject: [72677] RE: DSL?
Message-ID: <3947DACE.77E90AF0@arrl.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I suspect that inexpensive "small office/home" networks using twisted pair Ethernet (10-Base-T) could well produce a lot of RF hash. The hubs they sell in those kits are incredibly cheap and housed in plastic boxes. Serious full-sized hubs for the 10-Base-T configuration are heavily shielded as a rule.

I run a four node network at home with no RFI problems (at least, none from the network...the computers put out a few birdies, though nothing like they used to in the bad old days of the early PCs) but I use coaxial cable (10-Base-2) or the so-called "thin" Ethernet. The old "thick" Ethernet should also be pretty emission-proof. No hubs are required for either of those systems, and the cabling is all shielded.

-- Gary Phillips, Marengo, IL <mailto:ka9nzi@arrl.net>
KA9NZI, Seneca Twp., McHenry Co., IL Grid: EN52rg
QRP-L #2124 <http://www.qsl.net/ka9nzi/>

Date: Wed, 14 Jun 2000 14:19:20 -0500
From: "Kevin Muenzler, WB5RUE" <wb5rue@stic.net>

To: <w1rfi@arrl.org>, "'Low Power Amateur Radio Discussion'" <qrp-1@Lehigh.EDU>
Subject: [72678] RE: I'm an Extra and proud of it.
Message-ID: <000001bfd635\$7227b980\$ef5d6f81@v8.uthscsa.edu>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Now if we can just keep the "class warfare" out we can all be proud.

73/
Kevin, WB5RUE

> -----Original Message-----
> From: owner-qrp-1@Lehigh.EDU
> [mailto:owner-qrp-1@Lehigh.EDU]On Behalf Of
> Hare, Ed, W1RFI
> Sent: Wednesday, June 14, 2000 1:16 PM
> To: Low Power Amateur Radio Discussion
> Subject: RE: I'm an Extra and proud of it.
>
>
> Hi, Bob,
>
> I think there is enough pride in the Amateur Radio, and potential
> accomplishments, to go around.
>
> 73,
> Ed Hare, W1RFI
>

Date: Wed, 14 Jun 2000 15:22:55 -0400
From: "Victor Blackwell" <victor@brecnet.com>
To: <leinwebe@mcmail.cis.McMaster.CA>, "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [72679] Re: Noise Generator
Message-ID: <002801bfd635\$f2222d00\$455730d1@victor>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I am completely blown over by the many wonderful replies to my question about making a noise generator.

As a QRPer I am interested in weak signal work. I am also interested in

Radio Astronomy. More weak signal work.

I recently built a receiver dedicated to RA. I will monitor the Sun and Jovian storms on Jupiter.

I wish the noise generator as a trouble shooting tool and to calibrate received signals for later reference and comparison to other observers. A number of which turned out to be QRPers. I guess we all gravitate to the same technologies.

The original "serious" radio astronomy was a ham, Grote Reber. Had a nine call.

So thanks for the help and open to further discussion. Any comments or suggestions are welcome.

I hope to have my project well enough along by next fall so that students can visit my station and learn a bit about the many aspects of radio, astronomy, QRPing, etc..

Victor Blackwell AD8K
Bunker Hill Observatory (under construction)

Date: Wed, 14 Jun 2000 15:35:21 -0400
From: "Mike Yetsko" <myetsko@insydesw.com>
To: <ka9nzi@arrl.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [72680] Re: DSL?
Message-ID: <003701bfd637\$b84777a0\$2101a8c0@insydesw.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I don't blame the hubs. I have an Eagle hub at home, and I've never heard it or any of the PCs at all on any radio. And the K2 sure is sensitive enough. I have a Dana mini hub under my desk at work, hooked to an HP Pavilion, 2 HP Vectra VLs, and a PB mini-tower desktop. It's not TOO noisy, even though I have some unshielded cables like the eprom burner exposed. But when I power up an 'open' machine (a motherboard on a board) everything goes in the pot and starts simmering with regard to radio. My HTX-202 goes full scale on the duck. I can't even quiet it with the squelch. But I use a BNC male-female extension cable to move the antenna to the window about 5 feet away, now I can at least kill the noise with full squelch.

I don't blame the network or the hubs. I blame the computers.
Specifically computers with cases off!

Mike

> I suspect that inexpensive "small office/home" networks using
> twisted pair Ethernet (10-Base-T) could well produce a lot of
> RF hash. The hubs they sell in those kits are incredibly cheap
> and housed in plastic boxes. Serious full-sized hubs for the
> 10-Base-T configuration are heavily shielded as a rule.
>
> I run a four node network at home with no RFI problems (at
> least, none from the network...the computers put out a few
> birdies, though nothing like they used to in the bad old days
> of the early PCs) but I use coaxial cable (10-Base-2) or the
> so-called "thin" Ethernet. The old "thick" Ethernet should also
> be pretty emission-proof. No hubs are required for either of
> those systems, and the cabling is all shielded.
>
> -- Gary Phillips, Marengo, IL <mailto:ka9nzi@arrl.net>
> KA9NZI, Seneca Twp., McHenry Co., IL Grid: EN52rg
> QRP-L #2124 <http://www.qsl.net/ka9nzi/>
>

Date: Wed, 14 Jun 2000 14:44:12 -0500
From: "Gary Lee Phillips" <ka9nzi@arrl.net>
To: "Mike Yetsko" <myetsko@insydesw.com>, qrp-l@lehigh.edu
Subject: [72681] Computer RFI [was: Re: DSL?]
Message-ID: <200006141944.0AA31662@mail.lib.colum.edu>

Well, yes, an open computer case means anything could happen.
My home network has two Compaq towers, a Compaq laptop, and
a Commodore Amiga 3000. Noise is not a big deal with all of
them running normally, though I can hear mouse movements
from my desktop machine on my Kenwood (they are only a couple
of feet apart, after all.)

Compared to the days of the TRS-80, though, or the Compupro
S-100 BBS system I used to have running 24/7 in the hamshack,
computer RFI is pretty tame. I've seen a TRS-80 model 1 cause
a television in the same room to blank out. The Compupro made
so much noise on all bands that I used to shut it down during
QRP contests. Probably the ERP from the computer was greater
than that from my HW-8! ;-) Ah, the good old days--somehow they
weren't always that good.

-- Gary Phillips, Marengo, IL <mailto:ka9nzi@arrl.net>
KA9NZI, Seneca Twp., McHenry Co., IL Grid: EN52rg
QRP-L #2124 <http://www.qsl.net/ka9nzi/>

Date: Wed, 14 Jun 2000 16:08:49 -0700
From: "Larry Acklin" <larrya@compu-fixinc.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [72682] Re: Computer RFI [was: Re: DSL?]
Message-ID: <000501bfd655\$804da680\$0400a8c0@larrya98>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

My son's P100 one floor away, with a not completely "tight" case has a wonderful growl when the disk accesses. I can tell when the drive is seeking, reading, etc on 6M at 50.125 MHz. At least I know I'm on freq, since the dial on the MFJ aint calibrated real well.

Date: Wed, 14 Jun 2000 16:13:39 -0400 (EDT)
From: "baltimoremd@baltimoremd.com" <baltimoremd@baltimoremd.com>
To: "Richard E. Robinson" <rerobins@email.uncc.edu>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [72683] Re: Geeky Snake Oil
Message-ID: <Pine.BSI.4.05L.10006141610520.7605-100000@vh1.min.net>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

> Next time you need a surge suppressor, make sure it's for the proper
> operating system you're running and also internet ready. We sure would
> hate to lose someone from the qrp-l list due to buying an incompatible
> surge suppressor.

Perhaps the above should be included in the message that new members receive when they sign up for the list.

I just determined that my battery backup system is neither certified for Windows 98, nor the internet...now that I know I can't use it, perhaps I can tempt fate and use the batteries to power the rig, since the K2 is not connected to the net, nor does it use Windows.

73
thom

../
baltimoremd@baltimoremd.com Thom LaCosta K3HRN Webmaster

http://www.baltimoremd.com/ Baltimore's Home Page
http://www.baltimorehon.com Home of the Baltimore Lexicon
http://www.min.net/~thom/ QRP and Drake Mail List Pages

Date: Wed, 14 Jun 2000 16:14:06 -0400
From: "Brian" <brian@iquiest.net>
To: <baltimoremd@baltimoremd.com>, "Low Power Amateur Radio Discussion" <qrp-
l@Lehigh.EDU>
Subject: [72684] Re: Geeky Snake Oil
Message-ID: <001b01bfd63d\$179a71d0\$3d05080a@cincom.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

yet

----- Original Message -----
From: <baltimoremd@baltimoremd.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Sent: Wednesday, June 14, 2000 4:13 PM
Subject: Re: Geeky Snake Oil

> > Next time you need a surge suppressor, make sure it's for the proper
> > operating system you're running and also internet ready. We sure would
> > hate to lose someone from the qrp-l list due to buying an incompatible
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> Windows 98, nor the internet....now that I know I can't use it, perhaps I
> can tempt fate and use the batteries to power the rig, since the K2 is not
> connected to the net, nor does it use Windows.
>
> 73

[illegible]

Date: Wed, 14 Jun 2000 16:30:08 -0400
From: "Victor Blackwell" <victor@brecnet.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [72685] Fw: Noise Generator
Message-ID: <007901bfd63f\$55dd1860\$455730d1@victor>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

```
>I am completely blown over by the many wonderful replies to my question
>about making a noise generator.
>
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>Radio Astronomy. More weak signal work.
>
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>Jovian storms on Jupiter.
>
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>received signals for later reference and comparison to other observers. A
>number of which turned out to be QRPers. I guess we all gravitate to the
>same technologies.
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>The original "serious" radio astronomy was a ham, Grote Reber. Had a
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>call.
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>So thanks for the help and open to further discussion. Any comments or
>suggestions are welcome.
```


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>can visit my station and learn a bit about the many aspects of radio,
>astronomy, QRPing, etc..
>
>Victor Blackwell AD8K
>Bunker Hill Observatory (under construction)
>

Date: Wed, 14 Jun 2000 15:27:45 -0500
From: "Dan W. Dooley" <dandooley@pipeline.com>
To: <myetsko@insydesw.com>, "Low Power Amateur Radio Discussion" <qrp-
l@Lehigh.EDU>
Subject: [72686] Re: DSL?
Message-ID: <007501bfd63f\$02c96520\$0100a8c0@dandooley>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I have three computers in my shack/office and a UTP (10BaseT) network. The hub is a 3Com OfficeConnect. One of the computers is located right next to the radio desk. It is a commercial case so is actually itself shielded real well. I do seem to detect some noise that is freq. specific radiated from the monitor cable. Since this noise (sounds like a 1 kHz tone) appears only on certain frequencies, for the most part it's no bother. That is except for the signal right on 50.125! If I unplug the monitor, the offending noise goes away. The other computer tower in the room currently has the case off. Hardware upgrades in process. I notice no noise difference with this computer turned on or off.

I've run some "test" before listening for noise with the computers off and the hub off and components unplugged. So far, it seems the only noise interference I have here is the one described above. I'm still working on that one.

I recently added DSL, the adapter for which is also plugged into the hub. No additional noise has been noted.

Dan W. Dooley WB5TKA Bedford, Texas EM12ku
e-mail to: dandooley@pipeline.com
SOC#198
May Goddes love blest ye alle
"Ancient Pistol, I do partly understand your meaning."

----- Original Message -----

From: Mike Yetsko <myetsko@insydesw.com>

To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Sent: Wednesday, June 14, 2000 2:35 PM

Subject: Re: DSL?

> I don't blame the hubs. I have an Eagle hub at home, and I've never
> heard it or any of the PCs at all on any radio. And the K2 sure is
> sensitive enough. I have a Dana mini hub under my desk at work,
> hooked to an HP Pavilion, 2 HP Vectra VLs, and a PB mini-tower
> desktop. It's not TOO noisy, even though I have some unshielded
> cables like the eeprom burner exposed. But when I power up an 'open'
> machine (a motherboard on a board) everything goes in the pot
> and starts simmering with regard to radio. My HTX-202 goes full
> scale on the duck. I can't even quiet it with the squelch. But I use a
> BNC male-female extension cable to move the antenna to the window
> about 5 feet away, now I can at least kill the noise with full squelch.

>

> I don't blame the network or the hubs. I blame the computers.
> Specifically computers with cases off!

>

> Mike

>

> > I suspect that inexpensive "small office/home" networks using
> > twisted pair Ethernet (10-Base-T) could well produce a lot of
> > RF hash. The hubs they sell in those kits are incredibly cheap
> > and housed in plastic boxes. Serious full-sized hubs for the
> > 10-Base-T configuration are heavily shielded as a rule.

> >

> > I run a four node network at home with no RFI problems (at
> > least, none from the network...the computers put out a few
> > birdies, though nothing like they used to in the bad old days
> > of the early PCs) but I use coaxial cable (10-Base-2) or the
> > so-called "thin" Ethernet. The old "thick" Ethernet should also
> > be pretty emission-proof. No hubs are required for either of
> > those systems, and the cabling is all shielded.

> >

> > -- Gary Phillips, Marengo, IL <mailto:ka9nzi@arrl.net>
> > KA9NZI, Seneca Twp., McHenry Co., IL Grid: EN52rg
> > QRP-L #2124 <http://www.qsl.net/ka9nzi/>

> >

>

Date: Wed, 14 Jun 2000 16:33:26 -0400
From: semann@tcia.net (Steven Mann)
To: rerobins@email.uncc.edu
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [72687] Re: Geeky Snake Oil
Message-ID: <3947EC16.4C5AAE94@tcia.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

You got me rolling in the floor from laughing so hard! I sure hope my notebook computer's battery is internet ready!
Steve, N4EY

"Richard E. Robinson" wrote:

> List cops and the humor impaired should delete this message.

> -snip-

> Next time you need a surge suppressor, make sure it's for the proper
> operating system you're running and also internet ready. We sure would
> hate to lose someone from the qrp-l list due to buying an incompatible
> surge suppressor.

>

> 72,

>

> Rick kf4ar

>

> I have my MacOS compatible, surge protected, Internet ready, flame suit on.

Date: Wed, 14 Jun 2000 16:35:39 -0400
From: David Hinerman <dlh1009@ritvax.isc.rit.edu>
To: qrp-l <qrp-l@Lehigh.EDU>
Subject: [72688] Re: DSL?
Message-ID: <000801bfd640\$1d110950\$2d0a05cc@rochester.com>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

> I do seem to detect some noise that is freq. specific radiated from
> the monitor cable. Since this noise (sounds like a 1 kHz tone) appears
only
> on certain frequencies, for the most part it's no bother. That is except
> for the signal right on 50.125! If I unplug the monitor, the offending

> noise goes away

Dan,

Monitors are notorious for being RF noise sources. Mainly due to all the different frequencies being generated: vertical sweep, horizontal sweep, video, etc. Coupled with the fact that the vertical and horizontal circuits have to switch some sizeable current (magnetic deflection - gotta love it!), it's a wonder we don't all point north.

Does your monitor cable have any sort of noise suppressor? A clamp-on core or something? Maybe you can add some additional suppression.

Dave

Date: Wed, 14 Jun 2000 14:43:09 -0600
From: Ray Colbert <af852@rgfn.epcc.edu>
To: MADSENANDREW@netscape.net
Subject: [72689] Re: A source for crystals
Message-ID: <3947EE5D.1CD6DC1C@rgfn.epcc.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Doug Hendricks KI6DS of NORCAL normally or has had the 7040, 7110, and possibly 14.060 and 30 meter crystals in the past. However, he is on vacation at the moment (saw a post on here yesterday to that effect) and will be out of pocket for a few weeks. If you need those crystals quite soon, a lot of fellows are going with International Crystal (www.icmfg.com) 800 725-1426, JAN crystal, Ft Myers, fl 1-800-JAN-XTAL OR Peterson Radio at PR CRYSTALS, Peterson Radio Co. Inc. 2735 Avenue A council Bluffs, Ia 51501 712-323-7539 (operated by Mrs Peterson)

Not sure if Dan's small Parts has crystals but you might look at his website catalog at:
<http://www.fix.net/dans.html>

73

Ray

--

"The more I see of the representatives of the people, the more I
admire my dogs." letter from Count d'Orsay to John Foster 1850
Ray Colbert, W5XE, 00TC#3618, SOWP#1064M NARTE-NCT2 SOC#78
MI-QRP 379QRP-ARCI 5784 NORCAL 1110, El Paso, (FAR WEST) TEXAS

Date: Wed, 14 Jun 2000 15:54:58 -0500
From: "Chuck Carpenter" <w5usj@globeco.net>
To: rerobins@email.uncc.edu, "Low Power Amateur Radio Discussion" <qrp-
l@Lehigh.EDU>
Subject: [72690] Re: Geeky Snake Oil
Message-ID: <3.0.2.32.20000614155458.00832ad0@mail.globeco.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Rick,

Great stuff,

Goes right along with color compatible TV antennas.

>

>Next time you need a surge suppressor, make sure it's for the proper
>operating system you're running and also internet ready. We sure would
>hate to lose someone from the qrp-l list due to buying an incompatible
>surge suppressor.

>

>72,

>

>Rick kf4ar

>

>I have my MacOS compatible, surge protected, Internet ready, flame suit on.

>

>

>

>

Chuck Carpenter, Point, Rains County, Texas -- EM22cv, RARA #003
ARCI #5422, QRP-L #1306, SOC #57, Six Club #201, SMIRK #6275

Date: Wed, 14 Jun 2000 16:10:47 -0500
From: Charles K Brown <n4so@juno.com>
To: qrp-l@lehigh.edu

Subject: [72691] Noise Generator schematic-simple projects
Message-ID: <20000614.161047.3942.7.n4so@juno.com>

Basic electronic experimenter books often include
a noise generator schematic to teach basic electronic
principles. See Radio Shack, QST, ARRL Handbook, etc.

Fun Projects for the Experimenter Book 1998
>From the Jameco catalog p. 94 p.n. 156769

Ken Brown N4SO
Mobile, AL EM50tk
NorCal 20 at 5 watts
4 element yagi

YOU'RE PAYING TOO MUCH FOR THE INTERNET!
Juno now offers FREE Internet Access!
Try it today - there's no risk! For your FREE software, visit:
<http://dl.www.juno.com/get/tagj>.

Date: Wed, 14 Jun 2000 16:17:47 -0500
From: Gary Lee Phillips KA9NZI <ka9nzi@arrl.net>
To: qrp-l@Lehigh.EDU
Subject: [72692] Re: Geeky Snake Oil
Message-ID: <3947F67A.A76818EF@arrl.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

>color tv compatible antennas

Reminds me of the ad that ran for years in lots of popular publications
for a set-top television antenna that looked like a tiny satellite dish.

The ad copy proclaimed that it worked by "patented RF technology",
was "compatible with all sets", and furthermore, that you'd have no
monthly cable bill to pay [obviously, I should think.] This ran for so
long that they must have been selling truckloads of the things at
\$19.95 and later \$29.95 each. None of the claims in the ad were false,
but all of them were certainly misleading to the average, non-technical
reader.

-- Gary Phillips, Marengo, IL <mailto:ka9nzi@arrl.net>
KA9NZI, Seneca Twp., McHenry Co., IL Grid: EN52rg

QRP-L #2124

<http://www.qsl.net/ka9nzi/>

Date: Wed, 14 Jun 2000 17:29:12 -0400
From: "Victor Blackwell" <victor@brecnet.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [72693] Re: Geeky Snake Oil
Message-ID: <00c401bfd647\$95ce2380\$455730d1@victor>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Nothing new about snake oil. I am dating myself with this one:

How about the little AC-DC five tube radios that use to have a RCA phono plug on the back with a sticker saying "Television."

Can you just hear the salesman now?

Vic AD8K

Date: Wed, 14 Jun 2000 17:31:15 -0400
From: "Victor Blackwell" <victor@brecnet.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [72694] Fw: Noise Generator
Message-ID: <00cd01bfd647\$df1b65c0\$455730d1@victor>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

>

>

>

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>>

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>>astronomy, QRPing, etc..
>>
>>Victor Blackwell AD8K
>>Bunker Hill Observatory (under construction)
>>
>

Date: Wed, 14 Jun 2000 17:33:12 -0400
From: "David P. Drake" <dpd@dtpax2.ncifcrf.gov>
To: qrp-1@Lehigh.EDU
Subject: [72695] Re: solar storm question
Message-ID: <4.3.1.2.20000614172701.00b3d680@dtpax2.ncifcrf.gov>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

AS WB5UDE pointed out the magnetometer URL goes to the "Thursdays
Classroom" page and not to the page I intended. The correct URL is as follows:

<http://image.gsfc.nasa.gov/poetry/workbook/page9.html>

Sorry for the inconvenience.

Dave.

N3LSB - Dave
Taneytown, MD

dpd@dtpax2.ncifcrf.gov
QRP-1#:317

Carroll County

FM19jp

Date: Wed, 14 Jun 2000 14:42:15 -0700
From: Tayloe Dan-P26412 <Dan.Tayloe@motorola.com>
To: "'qrpl'" <qrpl@Lehigh.EDU>
Subject: [72696] Surface Mounted Parts Shortage
Message-ID: <87568F78ABDCD211A0AC0008C707718B029D0F49@az10exm03.sat.mot.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Interesting article. Among other things, this designer complains that the shortage is on **surface mounted parts** and not the through hole ones.

<http://tm0.com/sbct.cgi?s=28942655&i=213104&d=277143>

- Dan Tayloe, N7VE, Phoenix, Az; Az ScQRPions

Date: Wed, 14 Jun 2000 15:42:43 -0600
From: carlos.caro@lmco.com
To: qrpl@Lehigh.EDU
Subject: [72697] RE: Geeky Snake Oil
Message-ID: <D0A28D7EFEB4D11181DE0000F80627BB023A474F@emss02m14.ems.lmco.com>
Content-return: allowed
MIME-version: 1.0
Content-type: text/plain
Content-transfer-encoding: 7BIT

During the "transition" period,

A fairly compact marine radio listed as TRANSISTORSIZED.

Date: Wed, 14 Jun 2000 17:49:15 -0400 (EDT)
From: "baltimoremd@baltimoremd.com" <baltimoremd@baltimoremd.com>
To: Victor Blackwell <victor@brecnet.com>
Cc: Low Power Amateur Radio Discussion <qrpl@Lehigh.EDU>
Subject: [72698] Re: Geeky Snake Oil
Message-ID: <Pine.BSI.4.05L.10006141746200.12680-1000000@vh1.min.net>

MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Wed, 14 Jun 2000, Victor Blackwell wrote:

> How about the little AC-DC five tube radios that use to have a RCA phono
> plug on the back with a sticker saying "Television."

Way back when....I used to sit in fron of my GrandFathers floor model
radio...a Philco...and no matter how many times I pushed the "TV" button,
there were no pictures.

I asked him why no pictures, and he told me the "TV" had never worked
since he bought the set.

thom

../
baltimoremd@baltimoremd.com Thom LaCosta K3HRN Webmaster

<http://www.baltimoremd.com/> Baltimore's Home Page
<http://www.baltimorehon.com> Home of the Baltimore Lexicon
<http://www.min.net/~thom/> QRP and Drake Mail List Pages

Date: Wed, 14 Jun 2000 17:57:04 EDT
From: Rick McKee <kc8aon@juno.com>
To: ptay1@miro.bestweb.net, qrp-l@Lehigh.EDU
Subject: [72699] Re: battery clip leads
Message-ID: <20000614.184931.4303.24.kc8aon@juno.com>

Yeah ! you get one with each "dead" 9 volt battery ! I use side cutters
to peel away the metal around the top of the battery and just pull out
the top piece with the 2 connectors and discard the rest. Then you can
solder (I use ordinary speaker wire) any type of wire you want to it !
Then I seal the top with hot glue so it doesn't short out if something
gets across it with the battery connected. The best thing about it is
they are FREE !

73...Rick McKee KC8AON { CW lives as long as I do ! }
Willow Wood,Ohio "oo's"
AR QRP # 269 QRP-L # 2112 ZOMBIE # 718 FPqrp # 33
TriState BrassPounders # 1

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End of QRP-L Digest 1852

